

Public Notice
PERMIT APPLICATION: NRS #07.043

APPLICANT: TDOT
505 Deaderick Street
Suite 900 James K Polk Bldg.
Nashville, TN 37243-0339
(615) 253-2477

LOCATION: Butler Bottom Road Bridge and Approaches, Log Mile 0.72
Site Lat. 35.7890° Long. -89.4942°
Lauderdale County

WATERSHED DESCRIPTION: This project is located in the Lower Hatchie Watershed, HUC 08010208. Land use surrounding the project areas is agricultural. Three streams; two unnamed tributaries to Nelson Creek and Nelson Creek, are to be impacted by this road project. Nelson Creek, a tributary to Cane Creek, has been assessed as fully supporting its designated uses. **USGS TOPO QUAD:** Gates, TN (421-SW)

PROJECT DESCRIPTION: This application is for an aquatic resource alteration permit associated with improvements to Bulter Bottom Road at the Nelson Creek bridge. The exiting 2 span timber bridge over Nelson Creek is to be removed. The stream banks at this location are to be stabilized and the channel returned to a natural condition. The road is being moved approximately 100ft upstream (east) smoothing the curvature in the road. The replacement bridge over Nelson Creek is to be a 41 ft, 2 barrel box bridge, each barrel to be 16ft x 9ft. Approximately 100ft of rip rap with a geotextile liner are to be used during construction of the box culvert and temporary runaround. This riprap is to be removed post construction and the stream channel returned to natural conditions. Associated with the work will be the relocation of two unnamed tributaries, stream 2 and stream 3, each flowing on soil and gravel substrate with recently removed canopy.

Stream 2, unnamed tributary to Nelson Creek, Station 15+15 Rt to Station 18+60 Rt, Lat. 35.7893, Long. -89.4941 is a first order stream flowing from the north on the east side of the road. There is no existing canopy as the trees have been recently removed. 233ft of stream channel is proposed to be relocated. The existing channel is trapezoidal in shape, approximately 3ft wide at the bottom, 8ft deep, with top of bank width 20-25ft. The proposed 237ft channel is to be approximately 8ft deep, with 3:1 side slopes. The top of bank width is to be approximately 25ft. A 6ft berm with 2:1 side slopes is to be constructed along portions of the left descending bank. Trees are proposed on the east side of the new stream channel on 15ft centers 3 ft from the top of bank.

Stream 3, unnamed tributary to Nelson Creek, Station 16+40 Lt to Station 18+60 Lt, Lat. 35.7892, Long. -89.4944 is a first order stream flowing on from the north on the west side of the road. There is no existing canopy as the trees have recently been removed. 293ft of stream channel is proposed to be relocated into a 270ft channel. The existing channel is trapezoidal, approximately 3ft wide bottom depth, 6ft deep, with 10 – 15ft top of bank width. The proposed channel is to be approximately 5ft deep with top of bank

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width approximately 15ft. Trees are proposed on the west side of the new stream channel on 15ft centers 3 ft from the top of bank. Proposed mitigation for the 23ft loss of stream length is payment of \$4,600 to the Tennessee Stream Mitigation Program.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will result in degradation to water quality. Tier Evaluations were conducted on Nelson Creek, Stream 2, and Stream 3. These streams were determined to be Tier I.

More details on the proposal can be viewed on the Internet at <http://www.state.tn.us/environment/wpc/wpcppo/rap>.

PERMIT COORDINATOR: Judy Manners

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying. The department's address is:

Tennessee Department of Environment & Conservation
Division of Water Pollution Control, Natural Resources Section
7th Floor L & C Annex
401 Church Street
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.

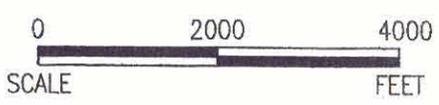


Lauderdale County, Butler Bottom Road Bridge over Nelson Creek, LM 0.72

PE: 49945-1487-94

PIN: 101903.00

GATES, TENN QUAD



Permit Sketch

②
 CHARLES SIMPSON
 & WIFE, CAROLYN SIMPSON
 2969 COFFEE SHOP ROAD
 RIPLEY, TN 38063

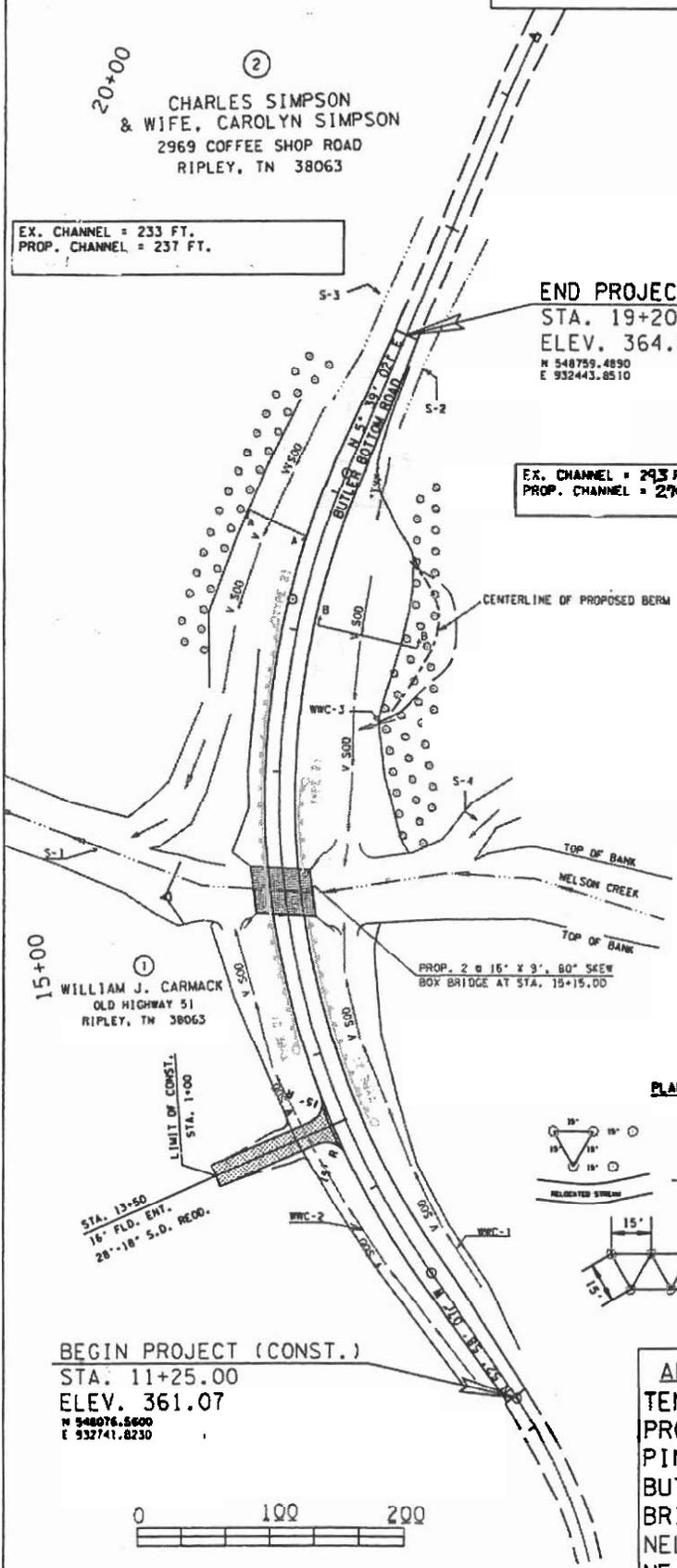
④
 MRS. W.T. SAVAGE
 P.O. BOX 99
 DRAKESBORO, KY 42337

EX. CHANNEL = 233 FT.
 PROP. CHANNEL = 237 FT.

END PROJECT (CONST.)
 STA. 19+20.00
 ELEV. 364.08
 N 548759.4890
 E 932443.8510

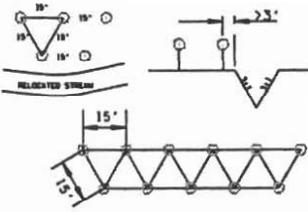
EX. CHANNEL = 293 FT.
 PROP. CHANNEL = 270 FT.

PROPOSED
 CURVE DATA:
 PI 15+50.13
 M 548,334.5720
 E 932,401.8080
 Δ 58° 31' 05" (RT.)
 D 10° 00' 00"
 R 572.96'
 L 306.19'
 T 321.65'
 EX 84.11'
 SE 0.060 FT/FT
 DESIGN SPEED 30 MPH
 TRANS. LENGTH 145.00'



①
 WILLIAM J. CARMACK
 OLD HIGHWAY 51
 RIPLEY, TN 38063

PLANTING SCHEMATIC FOR PROPOSED TREES



RECOMMENDED TREES:
 FRAXINUS PENNSYLVANICA, 1 1/2" - 1 1/2" CAL. B & B
 PLATANUS OCCIDENTALIS, 1 1/2" - 1 1/2" CAL. B & B
 FAGUS GRANDIFOLIA, 1 1/2" - 1 1/2" CAL. B & B
 ACER NEGUNDO, 1 1/2" - 1 1/2" CAL. B & B
 QUERCUS FALCATA, 1 1/2" - 1 1/2" CAL. B & B

TREES TO BE PLANTED WITHIN PROPOSED RIGHT-OF-WAY

BEGIN PROJECT (CONST.)
 STA. 11+25.00
 ELEV. 361.07
 N 548976.5600
 E 932741.8230

APPLICATION BY:
 TENNESSEE DEPARTMENT OF TRANSPORTATION
 PROJECT No. 49945-1487-94
 PIN 101903.00
 BUTLER BOTTOM ROAD
 BRIDGE AND APPROACHES OVER
 NELSON CREEK @ L.M. 0.72
 NEAR THE TOWN OF RIPLEY

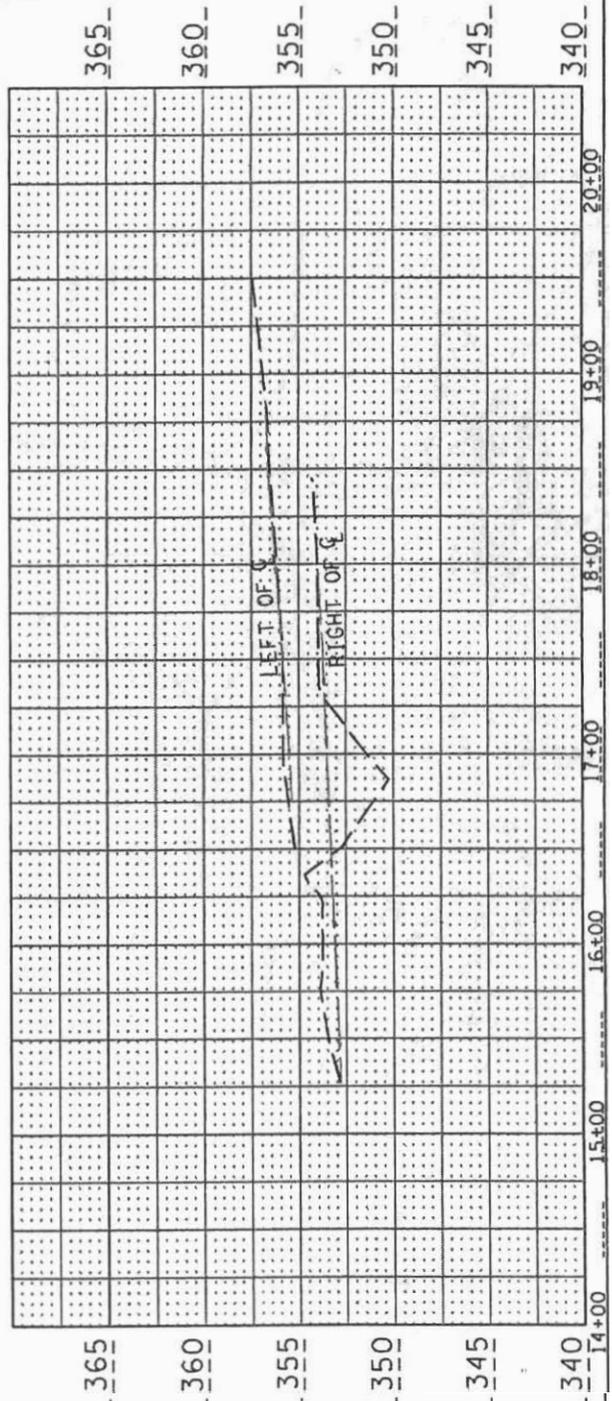
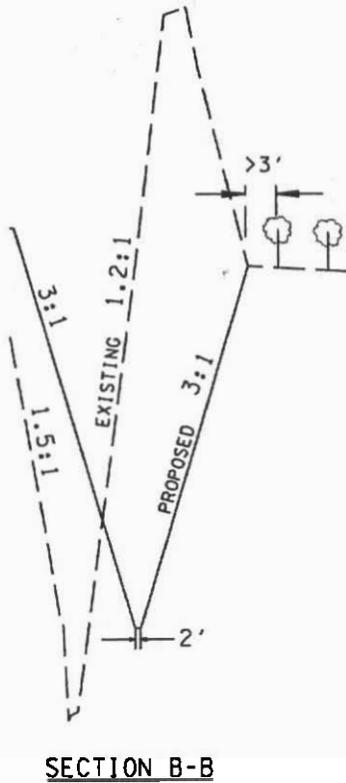
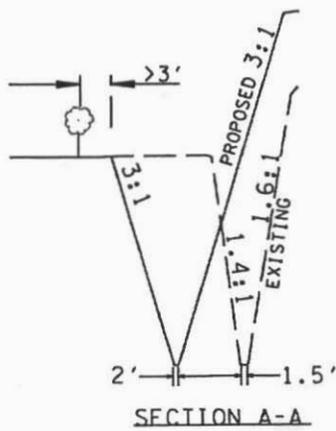


DATE: 05/25/06

REVISED: 01/22/07

SHEET 2 OF 3

Permit Sketch



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 PROJECT No. _49945-1487-94
 PIN _101903.00
 BUTLER BOTTOM ROAD
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 NELSON CREEK @ L.M. 0.72
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REVISED: _01/22/07

SHEET 3 OF 3



Photo 1957
03-08-05, ENSAFE, Inc.

View of S-1 stream (Nelson Creek) looking upstream (east) from top of bridge (Station 15+32).



Photo 1958
03-08-05, ENSAFE, Inc.

View of S-1 stream (Nelson Creek) looking downstream (west) from top of bridge (Station 15+32).



Photo 1960
03-08-05, ENSAFE, Inc.

View of S-3 stream (unnamed tributary to Nelson Creek) looking downstream (south) toward bridge from Station 19+20L.



Photo 1962
03-08-05, ENSAFE, Inc.

View of S-3 stream (unnamed tributary to Nelson Creek) looking downstream (south) toward bridge from Station 17+60L.



Photo 1964
03-08-05, ENSAFE, Inc.

View of S-3 stream (unnamed tributary to Nelson Creek) looking downstream (south) toward intersection with Nelson Creek from Station 15+92L.



Photo 1959
03-08-05, ENSAFE, Inc.

View of S-2 stream (unnamed tributary to Nelson Creek) looking downstream (south) toward bridge from Station 19+20R.



Photo 1961
03-08-05, ENSAFE, Inc.

View of S-2 stream (unnamed tributary to Nelson Creek) looking downstream (south) toward bridge from Station 17+60R.



Photo 1963
03-08-05, ENSAFE, Inc.

View of S-2 stream (unnamed tributary to Nelson Creek) looking downstream (south) toward intersection with Nelson Creek from Station 15+92R.



Photo 1967
03-08-05, ENSAFE, Inc.

View of S-4 stream (unnamed tributary to Nelson Creek) looking upstream (northeast). Stream is under dead vegetation.